

en	WiFi CONTROL PANEL KIT FOR BUILT-IN BOILERS
	FOR ROOM TEMPERATURE CONTROL

Dear Customer,
Our company is confident our new product will meet all your requirements. Buying one of our products guarantees all your expectations: good performance combined with simple and rational use.
Please do not put this booklet away without reading it first: it contains useful information for the correct and efficient use of your product.

Our company, constantly striving to improve the products, reserves the right to modify the details given in this documentation at any time and without notice. These Instructions are only meant to provide consumers with use information and under no circumstance should they be construed as a contract with a third party.

The appliance can be used by children aged 8 or over and by people with reduced physical, sensory or mental faculties, or who do not have the required experience or knowledge, provided they are supervised or have received instructions on using the appliance safely and understanding its intrinsic hazards. Children must not play with the appliance. The cleaning and maintenance operations reserved to the user must not be performed by unsupervised children.

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DESCRIPTION OF SYMBOLS



WARNING

Risk of damage to, or malfunction of the appliance. Pay special attention to the warnings concerning danger to people.



IMPORTANT INFORMATION

Information to read with particular care as it is useful for the correct operation of the appliance.



GENERIC PROHIBITION

It is forbidden to do/use the things indicated alongside the symbol.

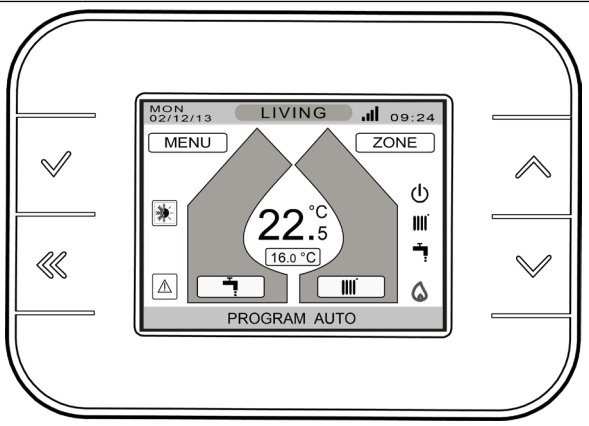







1. INTRODUCTION

The WiFi remote control accessory is used to control the temperature in the room to be heated. It acts as a modulating climate adjuster and adjusts the boiler flow temperature to obtain the required room temperature as efficiently as possible. It is also possible to set time bands to programme the operating time of the CH circuit and DHW circuit when there is a storage tank. A domestic WiFi connection can also be used to control the boiler directly via the App.





2. GENERAL DESCRIPTION

The WiFi remote control can be configured in two different ways:

- **MODULATING CLIMATE ADJUSTER:** adjusts the flow temperature and responds to heating demand
- **CONTROL UNIT:** controls the flow temperature but room thermostats are used to generate heating demand

Key to SYMBOLS			
	Off: heating and DHW disabled (only the antifrost protection is active).		
	CH enabled. The symbol flashes when there is heat demand.		
	DHW enabled. The symbol flashes when there is DHW demand.		
	Burner lit and presence of flame.		
	WiFi network signal strength indicator. The AP symbol replaces it during association with the WiFi network.		
	Boiler mode.		Fault in progress.

KEY legend

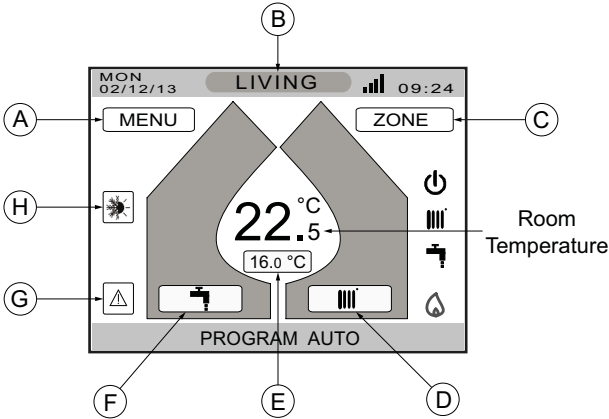
	Confirm		"Up" key (scrolling through the Menus upwards / anti-clockwise)
	"Back" key (return to the previous menu)		"Down" key (scrolling through the Menus downwards / clockwise)

3. USER FUNCTIONS

3.1 WiFi REMOTE CONTROL AS MODULATING CLIMATE ADJUSTER

The remote control permits access to the control functions.
On the main screen, the user functions can be accessed using the keys **▲▼** to scroll through these menus:

- MENU (A)
- LIVING (B)
- ZONE (C)
- CENTRAL HEATING (D)
- MANUAL SET-POINT (E)
- DHW (F)
- DISPLAY OF FAULT (G)
- BOILER MODE (H)

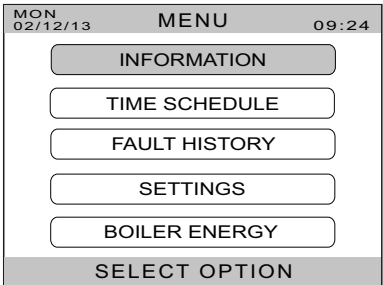


Use the keys **▲▼** to scroll through the menus, press the key **✓** to confirm and press the key **◀** to return to the previous screen.

MENU (A)

There are 5 functions available in this menu, as shown in the figure:

- INFORMATION
- TIME SCHEDULE
- FAULT HISTORY
- SETTINGS
- BOILER ENERGY



INFORMATION

This menu displays some values of the main probes of the boiler, as can be seen in the example here.

MON 02/12/13 INFO 09:24	
OUTDOOR TEMPERATURE	7°C
FLOW TEMPERATURE	41°C
RETURN TEMPERATURE	40°C
CH SETPOINT	45°C
CH PRESSURE	1.8 bar
DHW TEMPERATURE	52°C
DHW SETPOINT	55°C

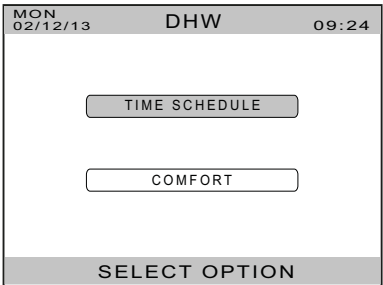
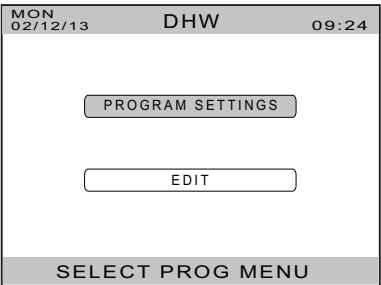
MON 02/12/13 INFO 09:24	
FLUE TEMPERATURE	--°C
EXCHANGER TEMPERATURE	--°C
POWER LEVEL	10%
DHW FLOW	--L/M
OT COMMUNICATION	0CNT
FAN SPEED	2100RPM
AVERAGE OUTDOOR TEMP	5°C

TIME SCHEDULE

This menu permits configuration of the time schedule for the DHW boiler, if present, by selecting "DHW" or, for the heating system, "ZONES". It is also possible to set "HOLIDAY" mode by activating which heating and DHW demand will not be considered and met until the set date/time.



DHW according to a time schedule ("TIME SCHEDULE") or a set 24h comfort schedule can be defined in the "PROGRAM SETTINGS" menu.



The DHW time schedule is active only when there is a DHW storage tank.

The current schedule can be displayed and edited by selecting the "EDIT" menu. Use the keys \wedge \vee to select the day of the week. Press the confirm key \checkmark to access the menu shown in the example where there are four options: ADD - EDIT - DELETE and COPY. Select the required option and follow the instructions that appear on the display. Press \ll to return to the previous menus.



During the selected daily time bands, the DHW boiler is brought up to the COMFORT setpoint. During the rest of the day, the DHW boiler is brought up to the ECO setpoint.

There are 3 options in the ZONES menu:

- EDIT
- RESTORE
- SAVE

EDIT

This menu shows all the zones connected to the system. Select the desired sub-zone to edit the time schedule and the room temperature setpoint. In the example below, the "LIVING" sub-zone is selected; the current program is displayed (the winter PROGRAM 1 is set by default because the date displayed falls within this period of the year). Use the keys \wedge \vee to select the day of the week. Press the confirm key \checkmark to access the third display shown in the example where there are four options: ADD - EDIT - DELETE and COPY. Select the required option and follow the instructions that appear on the display. Press \ll to return to the previous menus.

NOTE: EDITED PROGRAMS CAN BE SAVED AS "PERSONAL".

RESTORE

This function permits selection of a preset program from among the following options:

- PROGRAM 1
- PROGRAM 2
- PROGRAM 3
- PERSONAL

PROGRAM 1 (MON-FRI)

07:30	08:30	22.0°C
12:00	13:30	22.0°C
18:00	22:30	22.0°C
OTHER HOURS		16.0°C

PROGRAM 1 (SAT-SUN)

08:00	22:30	22.0°C
-	-	-
-	-	-
OTHER HOURS		16.0°C

PROGRAM 2 (MON-FRI)

07:30	08:30	22.0°C
18:00	22:30	22.0°C
-	-	-
OTHER HOURS		16.0°C

PROGRAM 2 (SAT-SUN)

08:00	22:30	22.0°C
-	-	-
-	-	-
OTHER HOURS		16.0°C

• PROGRAM 3 (MON-THU)

OTHER HOURS	8.0°C
-	-

PROGRAM 3 (FRI)

18:00	22:30	22.0°C
OTHER HOURS		8.0°C

PROGRAM 3 (SAT-SUN)

8:00	22:30	22.0°C
OTHER HOURS		16.0°C

• PERSONAL

THE MODIFIED PROGRAM CAN BE SAVED IN "PERSONAL"

SAVE

Select this item to save the edited program (from MONDAY to SUNDAY) as a "**PERSONAL**" program.

Lastly, select the HOLIDAY menu to put the boiler on standby until the set date and time (the antifrost function remains active).

FAULT HISTORY

This menu displays the faults recorded on the boiler board.

Indicated in the table are: the failure code with the respective service codes, the number of events recorded, the time elapsed since occurrence of the fault, the flow temperature and the state of the system at the time of the fault.

MON 02/12/13

FAULTS

09:24

FAILURE CODE	20
SUB CODE	1
NUMBER TIME	2
TIME Y: 00 M: 01 D: 02 H: 09	M: 40
CH TEMPERATURE	49
SYS STATE	0
PHASE STATE	0

FAULT

SETTINGS

The following can be edited in this menu: the time and date in the "TIME AND DATE" menu, display settings like the backlight time, colours and sound in the "DISPLAY" menu, the WiFi configuration settings in the "WIFI" menu, and setting of the units of measure and calibration of the internal sensor of the remote control in the "ADVANCED" menu.

MON 02/12/13		SETTINGS		09:24	
TIME AND DATE					
DISPLAY					
WIFI					
ADVANCED					
SELECT OPTION					

BOILER ENERGY

The heat energy produced by the boiler (calculated) in CH and DHW mode is displayed.

MON 02/12/13		ENERGY		09:24	
TOTAL CH KWH				0000006	
TOTAL DHW KWH				0000000	
PARTIAL CH KWH				0000006	
PARTIAL DHW KWH				0000000	
OPERATING DAY				0000527	
ENERGY					

LIVING (B)

This menu displays the zones nominated during initial startup of the remote control.

In this example, the "LIVING" zone is selected. Press the keys ✓◀◀ to scroll through the zones and view the data of each zone on the display. The system supports a maximum of 8 zones.

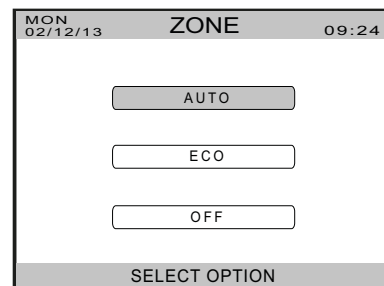
The system automatically assigns a name to each zone that the installer (SERVICE) can edit at his discretion during initial startup.

A cropped image of a single layout block showing a thermostat interface. The interface displays 'MON 02/12/13', 'LIVING', '09:24', 'MENU', 'ZONE', '22.5°C', '16.0°C', and 'PROGRAM AUTO'. It also features various icons like a sun, a warning triangle, a power button, a fan, and a flame.

ZONE (C)

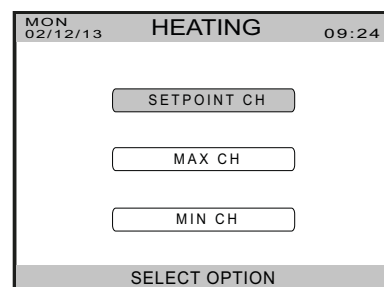
When the remote control is configured as a modulating climate adjuster, 3 functions are available in this menu as shown here:

- **AUTO:** heating demand is carried out according to the set time schedule
- **ECO:** heating demand is carried out according to the set time schedule but with reduced setpoint
- **OFF:** Heating demand for the zone is not met



CENTRAL HEATING (D)

The heating flow setpoint and maximum and minimum limits can be set in this menu.



The calculation of the flow setpoint with the presence of the external probe or with active room modulation may differ from the "SETPOINT CH" since it is calculated by the climate curve, but remains within the range of the "MAX CH" and "MIN CH".

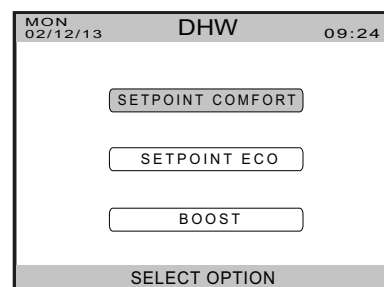
MANUAL SET-POINT (E)

Select this option to temporarily edit the room temperature setpoint of the required zone.

- Press the key once and the temperature value starts flashing;
- Use the keys to edit the value;
- Press the key again to set the duration of the setpoint between a minimum of 30 minutes and a maximum of 24 hours.

DHW (F)

In this menu it is possible to set the comfort and eco setpoint for DHW and activate the boost function for DHW that sets a temperature of the DHW storage tank higher than the comfort setpoint.



The ECO setpoint and BOOST function are enabled only when there is a DHW boiler. In addition, the ECO setpoint is enabled only when the time schedule for DHW is activated.

DISPLAY OF FAULT (G)

The FAULT symbol appears on the display only when there is a system fault (see the chapter FAULTS). When this option is selected, a description of the fault followed by the error code E xxx appears on the full screen. Press the key to return to the main page.

BOILER MODE (H)

Select this menu to set the operating mode of the boiler from among the following:

AUTO: the boiler meets both heating demand and DHW demand.

DHW: the boiler meets only DHW demand and heating demand is not considered.

CENTRAL HEATING: the boiler meets only DHW demand and heating demand is not considered.

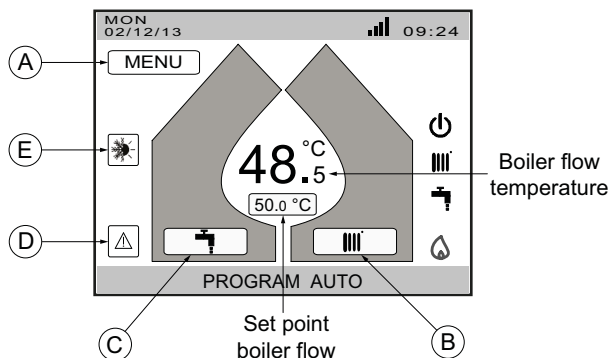
STAND BY: no demand is met (only the antifrost function remains active).

3.2 WiFi REMOTE CONTROL AS CONTROL UNIT

The remote control permits access to the control functions.
On the main screen, the user functions can be accessed using the keys **▲▼** to scroll through these menus:

- MENU (A)
- CENTRAL HEATING (B)
- DHW (C)
- DISPLAY OF FAULT (D)
- BOILER MODE (E)

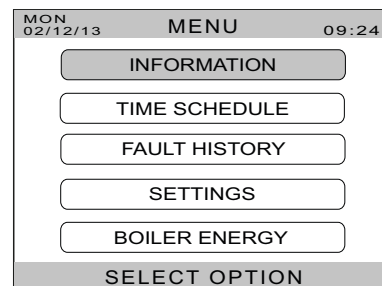
Use the keys **▲▼** to scroll through the menus, press the key **✓** to confirm and press the key **◀** to return to the previous screen.



MENU (A)

There are 5 functions available in this menu, as shown in the figure:

- INFORMATION
- TIME SCHEDULE
- FAULT HISTORY
- SETTINGS
- BOILER ENERGY



INFORMATION

This menu displays some values of the main probes of the boiler, as can be seen in the example here.

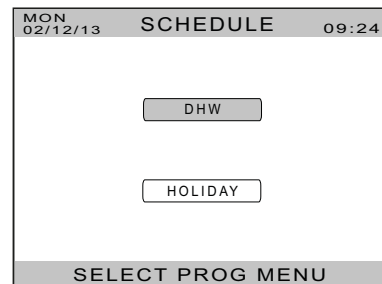
MON 02/12/13 INFO 09:24	
OUTDOOR TEMPERATURE	7°C
FLOW TEMPERATURE	41°C
RETURN TEMPERATURE	40°C
CH SETPOINT	45°C
CH PRESSURE	1.8 bar
DHW TEMPERATURE	52°C
DHW SETPOINT	55°C

MON 02/12/13 INFO 09:24	
FLUE TEMPERATURE	--°C
EXCHANGER TEMPERATURE	--°C
POWER LEVEL	10%
DHW FLOW	--L/M
OT COMMUNICATION	0CNT
FAN SPEED	2100RPM
AVERAGE OUTDOOR TEMP	5°C

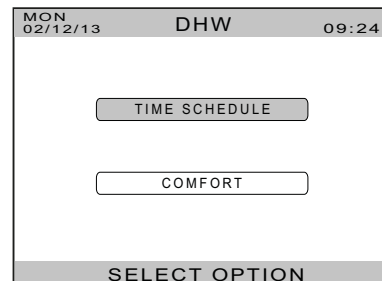
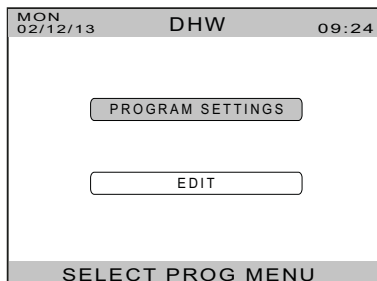
TIME SCHEDULE

In this menu it is possible to configure the time schedule for the DHW boiler, if present, by selecting "DHW".

It is also possible to set "HOLIDAY" mode by activating which heating and DHW demand will not be considered and met until the set date/time.

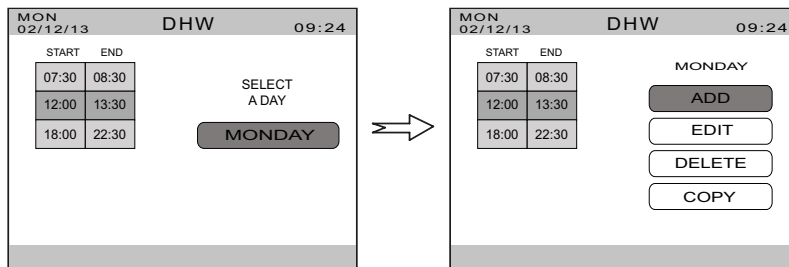


DHW according to a time schedule ("TIME SCHEDULE") or a set 24h comfort schedule can be defined in the "PROGRAM SETTINGS" menu.



The DHW time schedule is active only when there is a DHW storage tank.

The current schedule can be displayed and edited by selecting the "EDIT" menu. Use the keys \wedge \vee to select the day of the week. Press the confirm key \checkmark to access the menu shown in the example where there are four options: ADD - EDIT - DELETE and COPY. Select the required option and follow the instructions that appear on the display. Press \ll to return to the previous menus.



During the selected daily time bands, the DHW boiler is brought up to the COMFORT setpoint. During the rest of the day, the DHW boiler is brought up to the ECO setpoint.

Lastly, select the HOLIDAY menu to put the boiler on standby until the set date and time (the antifrost function remains active).

FAULT HISTORY

This menu displays the faults recorded on the boiler board.

Indicated in the table are: the failure code with the respective service codes, the number of events recorded, the time elapsed since occurrence of the fault, the flow temperature and the state of the system at the time of the fault.

MON 02/12/13 DHW 09:24	
FAULTS	
FAILURE CODE	20
SUB CODE	1
NUMBER TIME	2
TIME Y: 00 M: 01 D: 02 H: 09 M: 40	
CH TEMPERATURE	49
SYS STATE	0
PHASE STATE	0
FAULT	

SETTINGS

The following can be edited in this menu: the time and date in the "TIME AND DATE" menu, display settings like the backlight time, colours and sound in the "DISPLAY" menu, the WiFi configuration settings in the "WIFI" menu, and setting of the units of measure and calibration of the internal sensor of the remote control in the "ADVANCED" menu.

MON 02/12/13 DHW 09:24	
SETTINGS	
TIME AND DATE	
DISPLAY	
WIFI	
ADVANCED	
SELECT OPTION	

BOILER ENERGY

The heat energy produced by the boiler (calculated) in CH and DHW mode is displayed.

MON 02/12/13 DHW 09:24	
ENERGY	
TOTAL CH KWH	0000006
TOTAL DHW KWH	0000000
PARTIAL CH KWH	0000006
PARTIAL DHW KWH	0000000
OPERATING DAY	0000527
ENERGY	

CENTRAL HEATING (B)

The heating flow setpoint and maximum and minimum limits can be set in this menu.

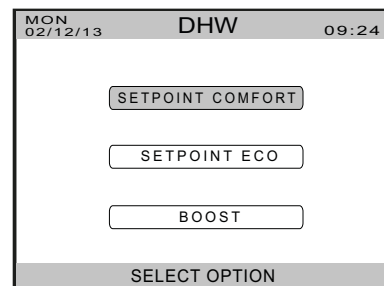
MON 02/12/13 DHW 09:24	
HEATING	
SETPOINT CH	
MAX CH	
MIN CH	
SELECT OPTION	



The calculation of the flow setpoint with the presence of the external probe or with active room modulation may differ from the "SETPOINT CH" since it is calculated by the climate curve, but remains within the range of the "MAX CH" and "MIN CH".

DHW (C)

In this menu it is possible to set the comfort and eco setpoint for DHW and activate the boost function for DHW that sets a temperature of the DHW storage tank higher than the comfort setpoint.



The ECO setpoint and BOOST function are enabled only when there is a DHW boiler. In addition, the ECO setpoint is enabled only when the time schedule for DHW is activated.

DISPLAY OF FAULT (D)

The FAULT symbol appears on the display only when there is a system fault (see the chapter FAULTS). When this option is selected, a description of the fault followed by the error code E xxx appears on the full screen. Press the key to return to the main page.

BOILER MODE (E)

Select this menu to set the operating mode of the boiler from among the following:

AUTO: the boiler meets both heating demand and DHW demand.

DHW: the boiler meets only DHW demand and heating demand is not considered.

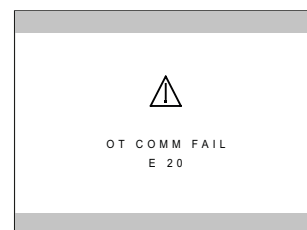
CENTRAL HEATING: the boiler meets only DHW demand and heating demand is not considered.

STAND BY: no demand is met (only the antifrost function remains active).

3.3 FAULTS

FAULTS SHOWN ON THE DISPLAY OF THE WiFi REMOTE CONTROL

The faults are identified on the display with the red symbol . Each fault is identified with text and a numerical code as shown in the example; the code is specific to the fault for the purpose of identification.



When there is a fault, it is displayed on the full screen. Press the key to return to the main screen, where the fault is reduced to an icon with the symbol shown on the left side of the display.

RESETTING THE FAULTS

There are two types of fault - RESETTABLE and BLOCKING. Resettable faults are those that the user can reset. They are shown on the display with the message "PRESS OK TO RESET". To reset the fault, press the OK key with the symbol .

Blocking faults cannot be reset by the user and require the intervention of a qualified person.



The complete list of faults is given in the chapter "LIST OF FAULTS".

3.4 TEMPERATURE ADJUSTMENT

CENTRAL HEATING

If the WiFi remote control is used as a modulating climate adjuster, the **room temperature** is adjusted by editing the time schedule or manual setpoint as described previously.

If the WiFi remote control is used as a control unit, the **room temperature** is adjusted directly at the room thermostats located in the building.

In both cases, the parameters in the HEATING menu on the WiFi remote control can be used to adjust the boiler **flow temperature** as required. The symbol flashes on the display when there is heating demand.

DOMESTIC HOT WATER

The temperature of the **domestic hot water** can be adjusted by changing the parameters in the DHW menu. The symbol flashes on the display when there is DHW demand.



The domestic hot water can be adjusted with a time schedule only when there is a DHW storage tank.

4. CONNECTIVITY

The WiFi remote control can be connected to the domestic WiFi network and used to control the boiler directly from a smartphone or tablet on which the free BAXI HybridAPP has been installed.

4.1 CONNECTING THE REMOTE CONTROL TO THE DOMESTIC WiFi NETWORK

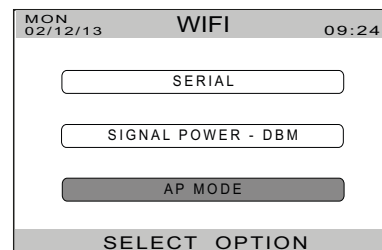


To complete this procedure successfully you need an active and functional domestic WiFi network with which the remote control can be permanently associated. The entire procedure is carried out using a smartphone or tablet with WiFi connection.

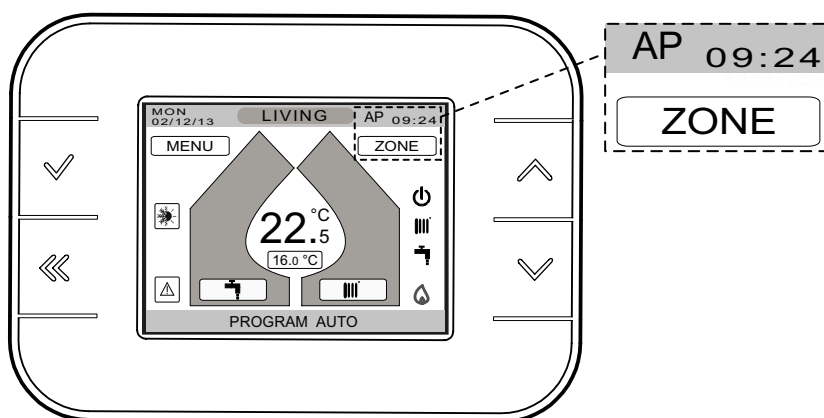
Follow the steps below in the order they are given.

a) ENABLING CONNECTION TO THE NETWORK

On the remote control, go to MENU - SETTINGS - WIFI and press ✓ to activate the AP MODE.



The letters AP appear on the main page of the remote control indicating activation of the procedure. The AP MODE is activated for a limited period of time after which normal operation of the remote control is restored if the procedure is not completed successfully.



b) CONNECTING THE SMARTPHONE/TABLET TO THE REMOTE CONTROL



The images below refer to mobile devices with an Android operating system and are for illustrative purposes only. The images on your mobile device may differ according to the version and type of its operating system (Android, iOS).

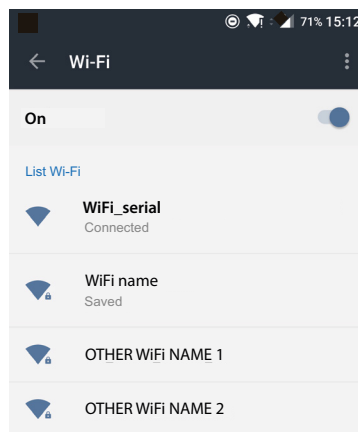
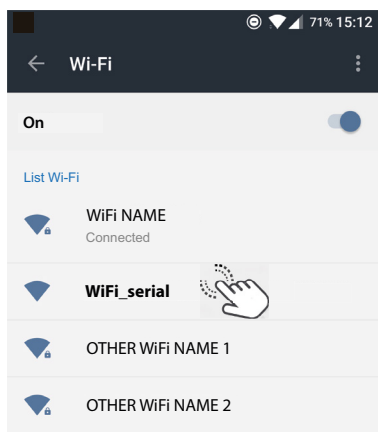
You need to activate WiFi on your mobile device and perform a search for available WiFi networks to identify the one created by the remote control (it may take a few moments to identify the network).



The name of the network of the WiFi remote control is WiFi_serial. The word "serial" is indicative and is replaced in fact by the serial number of the remote control, which can be found on the MENU-SETTINGS-WIFI-SERIAL.

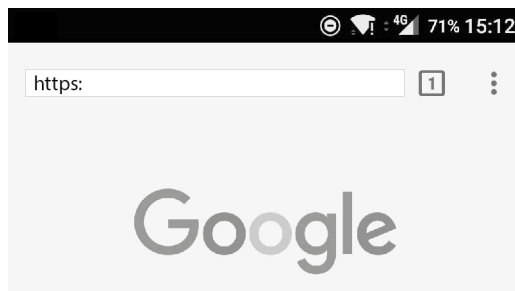
If the WiFi_serial network does not appear, you need to check that WiFi has been activated on your mobile device or repeat step a) of the procedure.

Once the network of the remote control has been identified, connect your smartphone/tablet to it.

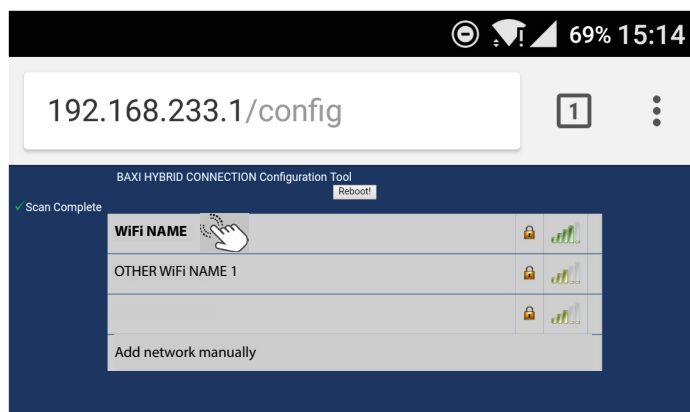


c) CONFIGURING THE NETWORK ON THE REMOTE CONTROL

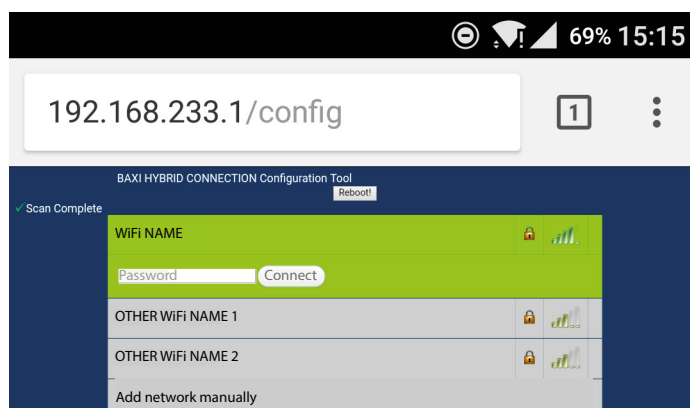
After connecting the mobile device to the remote control, open your web browser and access the remote control's network configuration page by typing **http://192.168.233.1/config** in the address bar or using the **QR code** in the image below.



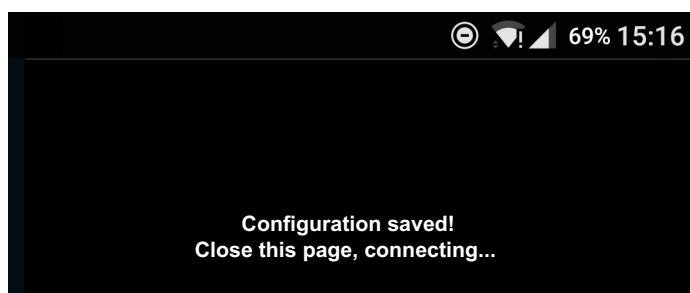
The BAXI HYBRID CONNECTION Configuration Tool page opens, displaying the WiFi networks recognised by the remote control. At this point, select your domestic network to which you wish to connect the remote control.




If the domestic network is secured, enter the password and press **Connect**.

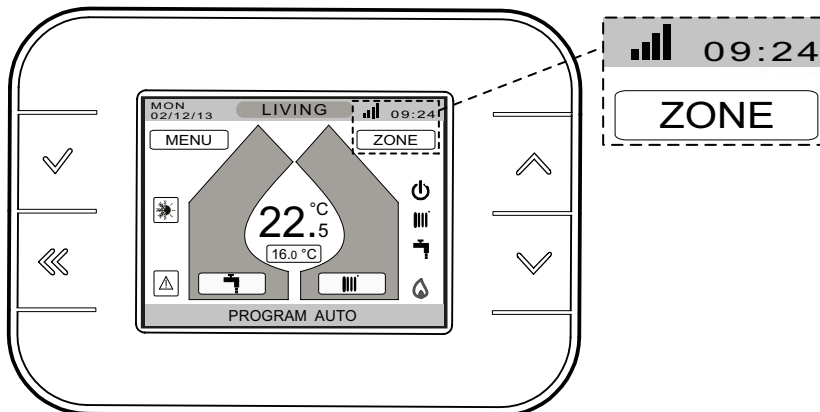


A page appears automatically that confirms successful configuration. Your smartphone/tablet connects automatically to the mobile data or domestic WiFi network.



d) CHECKING THE CONNECTION

The network identification symbol  should appear within a few minutes. If it does not, repeat the step CONNECTING THE REMOTE CONTROL TO THE DOMESTIC WiFi NETWORK.



Reasons for failed connection can include incorrect password and absence of the WiFi network.

4.2 CONFIGURATION AND ASSOCIATION OF THE BAXI HYBRID APP TO THE REMOTE CONTROL

The **BAXI HybridAPP** for remote control of your boiler can be downloaded from:

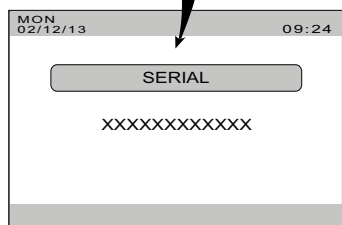
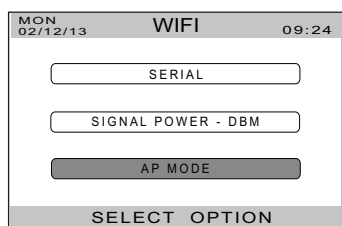


After downloading and installing the app on your mobile device, complete registration by creating a user profile following the instructions in the app.

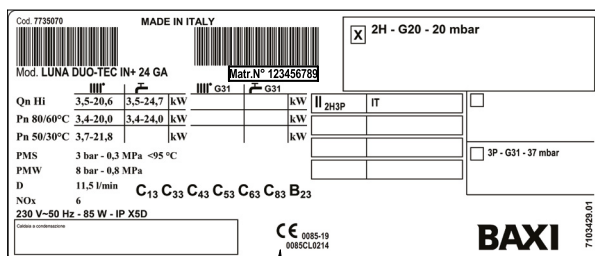
You can then associate your user profile with the remote control. To do so, you need:

- the serial number of the remote control, which can be easily found on the page MENU-SETTINGS-WIFI-SERIAL,
- the serial number of the boiler, given on the serial number plate affixed on the boiler.

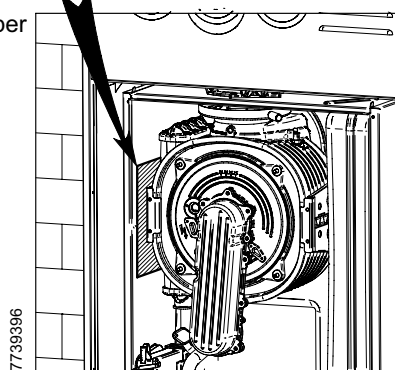
Images are given in the app that allow you to easily locate and identify the serial numbers. Once the association procedure is completed, you can access the app with your user profile.



remote control serial number

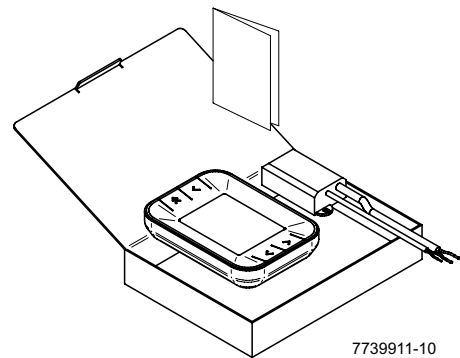


boiler serial number



5. CONTENTS OF PACK

- WiFi remote control
- 230Vac / 24Vdc isolated power supply
- Instructions manual



6. ELECTRICAL CONNECTIONS

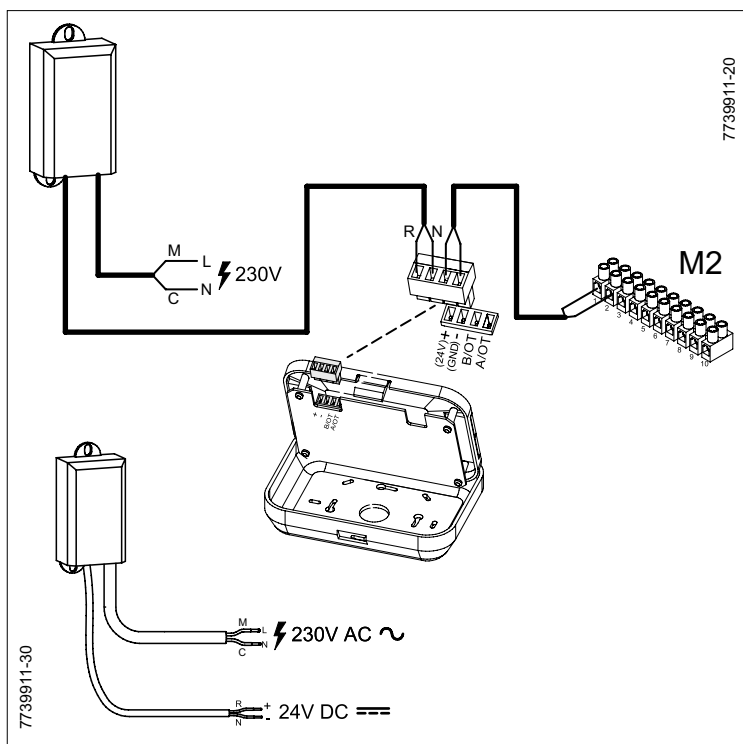
6.1 INSTALLING THE REMOTE CONTROL ON THE WALL



The connections in terminal block M1 are high voltage (230 V). Before making connections, make sure the appliance is disconnected from the power supply. Respect the input polarity on terminal block M1: L (LINE) - N (NEUTRAL).

Follow the procedure below (see the figure alongside):

- Disconnect the boiler from the mains power supply.
- Install the isolated power supply unit supplied in the casing of the boiler or in another suitably protected area, fixing it with screws to the hooks.
- Connect the cable of the power supply unit to the **M1** terminal block of the boiler or other available power connection, observing the correct polarity: M (brown) => L (line); C (light blue) => N (neutral). When not previously installed, use a double-pole switch with a contact separation of at least 3 mm.
- Open the remote control, separating the base from the front panel.
- Fix the base of the WiFi remote control on the wall using the screws and rawlplugs provided.
- Connect the bus cable to the terminals **1-2** (not polarised) on the **M2** terminal block of the boiler.
- Connect the bus cable to the A-OT - B/OT terminals (not polarised) on the connector of the WiFi remote control, using the hole for the cable at the base of the WiFi remote control.
- Connect the power cable of the isolated transformer (24Vdc) to the +/- terminals of the connector on the WiFi remote control, observing the polarity: R (red) => +(24Vdc); N (black) => -(GND).
- Install the WiFi remote control on the base fixed to the wall, making sure not to exert excessive force.
- Power up the boiler and WiFi remote control and check that they work properly.

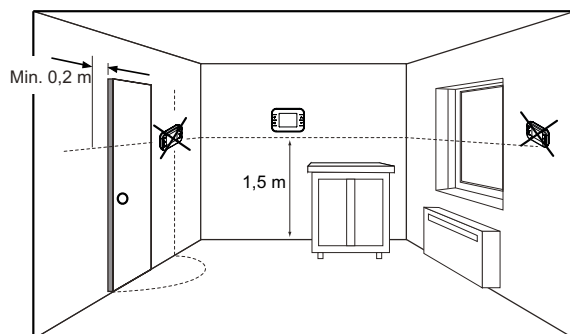


The remote control is for controlling the boiler with the exception of the Flue Cleaner Function, the Initial Start-up Function and the Combustion Adjustment Function. The boiler information menu cannot be accessed from the WiFi remote control, however some of the details (system pressure, flow temperature, etc.) can be viewed in the information menu of the WiFi remote control.



If fault E 83 is shown on the boiler display there is a communication problem between the boiler board and the remote control. Probable short circuit on wiring. Do not place the cables near heat sources, high voltages and magnetic fields.

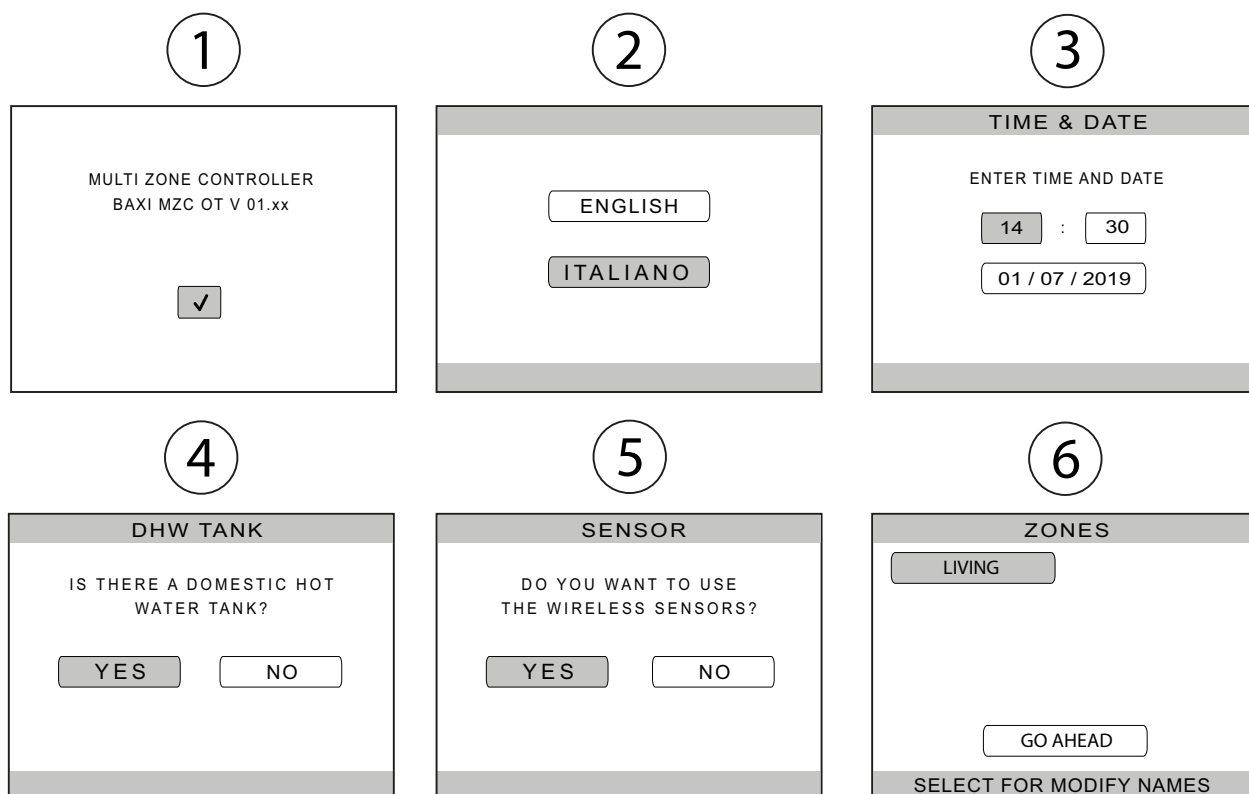
The remote control must not be installed on the wall of a room that can be affected by sources of heat/cold or air currents (like doors, windows, radiators/convectors, air conditioning units, etc.). The recommended height for optimal comfort is about 1.5 above the floor.



7. INITIAL START-UP OF THE WiFi REMOTE CONTROL

When started for the first time, the WiFi room unit must be set up according to the required type of operation. These are shown, in order, on the display:

1. The software version of the Remote Control and the symbol "✓". Press the key ✓ to continue;
2. The language selection menu (this setting can however be changed later on);
3. The date/time settings page;
4. The DHW boiler settings page (when applicable). The DHW time schedule and ECO DHW setpoint can be activated;
5. The WiFi remote control has an internal sensor for controlling the room temperature. To use this sensor, select **YES** and continue with step 6 of the procedure. If instead you wish to use only the thermostats to control heating demand, select **NO**. Selecting **YES** enables the system to manage a single zone;
6. The zone is assigned an initial name that can be modified as required;

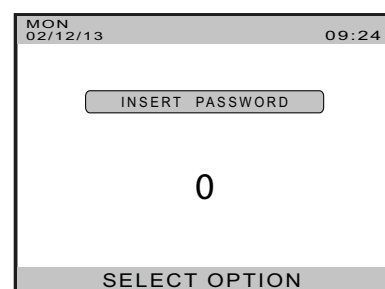


At the end of the configuration procedure, the main page is displayed according to the set options.

8. ACCESS TO THE INSTALLER LEVEL

The SERVICE level is reserved for Authorised Service Centres. The additional parameters for the installer can be accessed at this level. This level can be accessed as follows:

- Access the **MENU** using the keys **^** **v**;
- Press buttons **◀** and **✓** together for at least 5 seconds. The password menu appears on the display as shown in the figure;
- Use the keys **^** **v** to enter the required password.






Communication between the electronic board of the boiler and the WiFi remote control is not immediate. In some cases, depending on the type of information transmitted, it may take a little while for the command to be performed.

9. STRUCTURE OF THE MENU AND LIST OF PARAMETERS

Level 1	Level 2	Level 3	Parameter	Factory settings	Access level	Description
Menu	Information	---	Outdoor temperature	-- °C	E	Instantaneous outdoor temperature displayed
		---	Flow temperature	-- °C	E	Heating flow temperature from boiler
		---	Return temperature	-- °C	E	Heating return temperature from boiler
		---	CH setpoint	-- °C	E	Setpoint calculated for heating flow
		---	CH pressure	-- bar	E	System pressure supplied by boiler
		---	DHW temperature	-- °C	E	DHW flow temperature from boiler
		---	DHW setpoint	-- °C	E	Setpoint calculated for DHW
		---	Flue temperature	-- °C	E	Boiler flue temperature
		---	Exchanger temperature	-- °C	E	Boiler exchanger temperature
		---	Power level	-- %	E	Boiler power modulation level
		---	DHW flow	-- l/min	E	DHW flow detected by boiler
		---	OT communication	-- CNT	E	Communications not transmitted via OpenTherm bus
		---	Fan speed	-- rpm	E	Rotational speed of the boiler fan
		---	Average outdoor temp	-- °C	E	Average outdoor temperature over time
	Time schedule	DHW ⁽¹⁾	---	---	E	Sets the time schedule for DHW or enables the <i>Always comfort</i> mode
		Zone ⁽³⁾	---	---	E	Sets the time schedule for the heating zones
		Holiday	---	---	E	Puts the boiler on standby until a set date/time
	Climate curve	Climate amb ⁽³⁾	Curve slope	1	I	Slope of the climate curve with indoor sensor
			Ambient inf ⁽⁴⁾	50 %	I	Extent of ambient influence on calculation of the climate curve
			K reg ⁽⁴⁾	4	I	Slope of the room component
			Offset Z1	0 °C	I	Offset of climate curve with sensors
			Room modul	Off	I	Enables modulation with room temperature
		Avr otd temp	---	12 h	I	Time for calculation of the average
	Fault history	---	---	---	E	Displays the list of boiler faults


Level 1	Level 2	Level 3	Parameter	Factory settings	Access level	Description
	Settings	Display	Date & Time	---	E	For setting the date and time
			Sound	On	E	Activates the sound for pressing the keys of the room unit
			BAcklight	5 min	E	Delay before switching the display to energy saving mode
			Colors	Blue	E	For selecting the colours
			Language	English	E	For selecting the language
		WiFi	Serial	---	E	Displays the serial number of the room unit
			Signal power	---	E	Displays the power of the associated WiFi network
			AP mode	---	E	Activates AP mode for configuring the WiFi network for the room unit
		Advanced	Hysteresis	0,5 °C	E	Hysteresis for the room setpoint to generate heating demand
			Sensor calibration	0 °C	E	Calibration parameter for the sensor in the WiFi room unit
			Unit of measure	°C	E	Permits selection of the unit of measure
			Floor curing	Off	I	Activates the floor curing function
			Floor curing stp	45 °C	I	Sets the flow setpoint during the floor curing function
			DHW tank	Not present	I	Sets the presence of a DHW storage boiler connected to the boiler
			Configuration	---	I	Permits configuration of the WiFi room unit, as well as restoring of the factory settings
			Antifrost	On	I	Permits management of room antifrost protection
			Self learning	Off	I	Activates the self learning function for setting the heating time
			Boiler power	---	I	Activates calculation of the energy and setting of the parameters for calculation
			Service time	---	I	Activates the function to request technical service at a time/date
		TSP parameter	---	---	I	Menu displaying the internal parameters of the boiler
	Boiler energy	---	---	---	E	Displays the heat in kWh produced by the boiler in CH or DHW mode (calculated value)
Living ⁽³⁾	---	---	---	---	E	Displays the name of the zone (if the room sensor is present)
Zone ⁽³⁾	---	---	Auto	---	E	Heating demand for the zone is according to the time schedule
	---	---	Eco	--	E	Heating demand for the zone is according to the time schedule with reduced setpoint
	---	---	Off	--	E	Heating demand for the zone is not considered

Level 1	Level 2	Level 3	Parameter	Factory settings	Access level	Description
Heating 	---	---	Setpoint risc	45 °C	E	Heating flow setpoint
	---	---	Max risc	55 °C	E	Maximum value that can be set for the heating flow setpoint
	---	---	Min risc	25 °C	E	Minimum value that can be set for the heating flow setpoint
Comfort mode	---	---	---	---	E	Permits setting of a manual room setpoint that differs from the time schedule, for a required time
DHW 	---	---	Setpoint comfort	55 °C	E	Comfort setpoint for DHW according to the DHW time schedule
	---	---	Setpoint eco ⁽²⁾	35 °C	E	Eco setpoint for DHW according to the DHW time schedule
	---	---	Boost ⁽¹⁾	---	E	Activates the boost function
Error ⁽⁵⁾	---	---	---	---	E	Displays information on the current fault which can be reset when permitted
Boiler mode 	---	---	Automatic	---	E	Activates operation of the boiler for both heating and DHW
	---	---	DHW	---	E	Activates operation of the boiler only for DHW
	---	---	Heating	---	E	Activates operation of the boiler only for heating
	---	---	Standby	---	E	Activates standby mode of the boiler. No DHW or heating demand is performed. The antifrost function remains active
<p>(1) Shown only when there is a DHW tank (DHW tank parameter = Present)</p> <p>(2) Shown only when there is a DHW tank (DHW tank parameter = Present) and with the time schedule active</p> <p>(3) Shown only when the WiFi room unit is configured as a climate adjuster</p> <p>(4) Shown only with Room modul parameter = On</p> <p>(5) Shown only when there is a fault</p>						

10. SPECIAL FUNCTIONS

The installer who accesses the MENU as described in the chapter "ACCESS TO THE INSTALLER LEVEL" can use the special functions below.

10.1 FLOOR CURING FUNCTION

Activating the floor curing function makes the system enter heating mode, putting all demand in progress on hold. The red  symbol flashes on the display when the function is active. The floor curing function is activated for a period of time, from the moment of activation, with the following setpoints:

- 3 days with flow setpoint = 25°C
- 2 days with flow setpoint = (FLOOR CURING STP + 25°C)/2
- 4 days with flow setpoint = FLOOR CURING STP

where the "FLOOR CURING STP" is a parameter that can be edited.

The function can be deactivated manually or it deactivates itself automatically at the end of the cycle.

10.2 ANTIFROST FUNCTION

The antifrost function guarantees a minimum room temperature of 7°C, generating heating demand if necessary to maintain this setpoint. The function can be activated or deactivated in the settings.



The antifrost function can be used when the WiFi remote control is configured as a modulating climate adjuster.



The function is operative if: the boiler is electrically powered, there is gas, system pressure is normal and the boiler is not blocked.

10.3 SELF LEARNING FUNCTION

The self learning function, based on the heating time schedule set by the user, controls ignition of the boiler before the set time to obtain the desired room temperature immediately.

The symbol **A** appears on the display when the function is active.



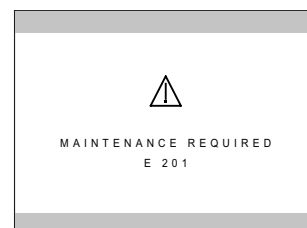
The self learning function can be used when the WiFi remote control is configured as a modulating climate adjuster.

10.4 SERVICE TIME FUNCTION

This function alerts the user when the boiler requires maintenance. It does so by opening the fault page with the code Maintenance Required E201, as shown in the figure.

The maintenance alert appears on the date (day/month/year) and at the time (hh:mm) defined by the Technical Service Centre according to the needs of the system and the regulations in force.

The alert is no longer shown if the function is deactivated or if the set date is later than the current one.



11. ACCESS TO THE TSP PARAMETERS

By accessing the TSP PARAMETERS you can view and edit all the parameters of the boiler directly with the WiFi remote control.



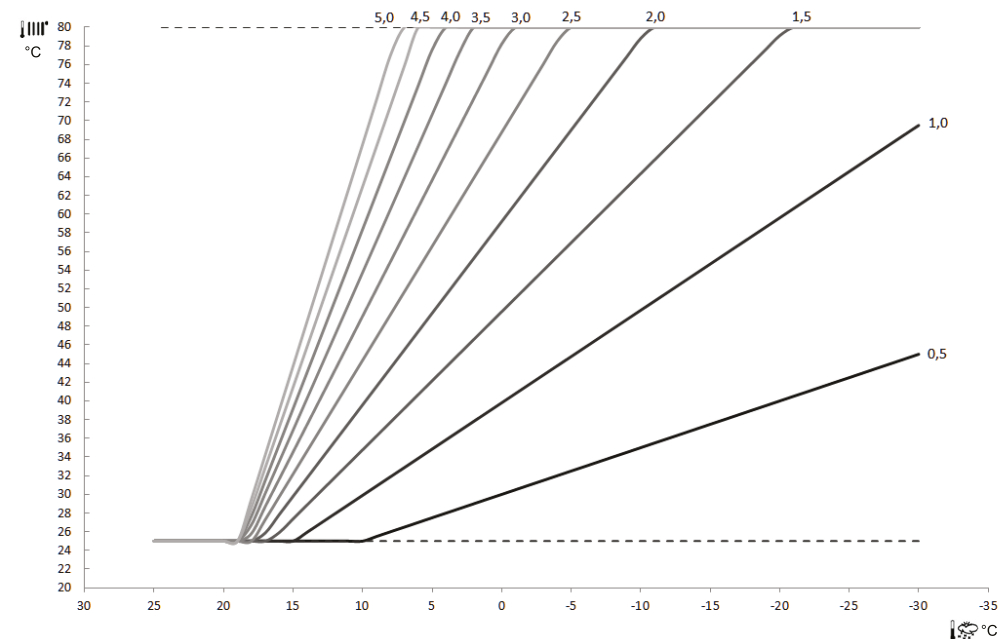
A complete list of the boiler parameters and information on these are available in the specific manual of the unit.

12. CLIMATE CURVE SETTING

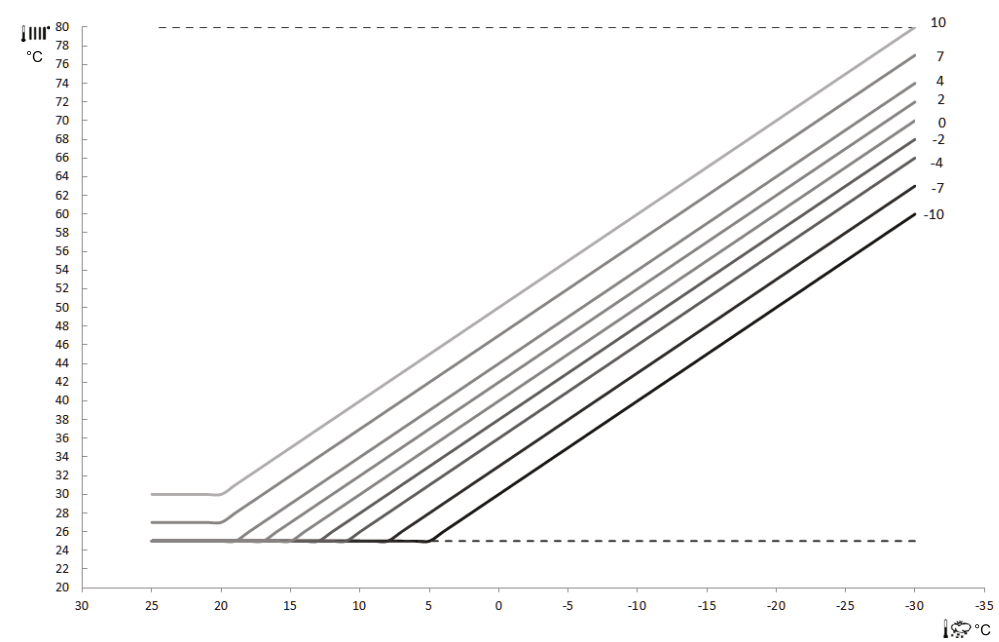


The climate curve can vary according to configuration of the WiFi remote control, activation of room modulation, setting of the curve parameters, the zone setpoint and presence of the external probe.

Climate curves with variation of the slope



Climate curves with variation of the offset




13. SETTING THE PARAMETERS FOR CALCULATING THE ENERGY

To calculate the correct amount of heat energy produced by the boiler, you need to set the CURVE SLOPE and INTERSECTION POINT parameters according to the boiler's power rating. The power rating can be found in the "TECHNICAL SPECIFICATIONS" chapter of the boiler manual, where the Rated heat output for DHW circuit and Rated heat power 80/60°C are given. The CURVE SLOPE and INTERSECTION POINT parameters, instead, are available in the MENU - SETTINGS - ADVANCED - BOILER POWER and must be set referring to the table.

Rated heat output for DHW circuit (kW)	Rated heat power 80/60°C (kW)	CURVE SLOPE parameter (W/rpm)	INTERSECTION POINT parameter (kW)
- ⁽¹⁾	12	2,44	-0,93
- ⁽¹⁾	24	4,20	-1,22
24 ⁽²⁾	20		
20 ⁽²⁾	20		
24 ⁽³⁾	20	4,14	-1,44
20 ⁽³⁾	20		
- ⁽¹⁾	28	4,71	-1,18
- ⁽¹⁾	32	6,30	-1,70
26	20	3,89	-0,68
28	24	4,25	-1,08
29	24	4,20	-1,03
33	28	5,01	-1,06
16	12	2,94	-1,03
40	32	6,13	-1,04

⁽¹⁾ gas boilers only heating
⁽²⁾ for boilers with serial number previous to 171899001
⁽³⁾ for boilers with serial number 171899001 and subsequent

14. LIST OF FAULTS

	Description of fault	Service action
010	Fault with the external probe	Check the wiring of the external probe. The probe may be faulty. The board may be faulty. The problem is solved when the fault is reset.
155	Faulty communication between the bus and boiler	Check correct connection of the wires to the terminal block and board. The board or room unit may be faulty. The problem is solved when bus communication is restored.
201	Requested maintenance	Intervention of the Service Time function. Boiler maintenance is required.



Refer to the boiler manual for the list of faults relating to the boiler.

15. TECHNICAL SPECIFICATIONS

- Power supply of the power supply unit: 230V - 50Hz
- Power supply of the room unit: 24Vdc
- Insulation class II
- WiFi transmission frequency 2.4 GHz
- Operating temperature from +0°C to +50°C
- Type of cable: 4x0.75 mm² - Maximum length 50m

16. PRODUCT SHEET

Product sheet table for temperature control devices

* - **		
Class		V
Contribution to energy efficiency of room heating	%	3

* - ** : refer to the rated data of the device.

